

IM349

DATA VISUALISATION IN SCIENCE, CULTURE AND PUBLIC POLICY

Term 2

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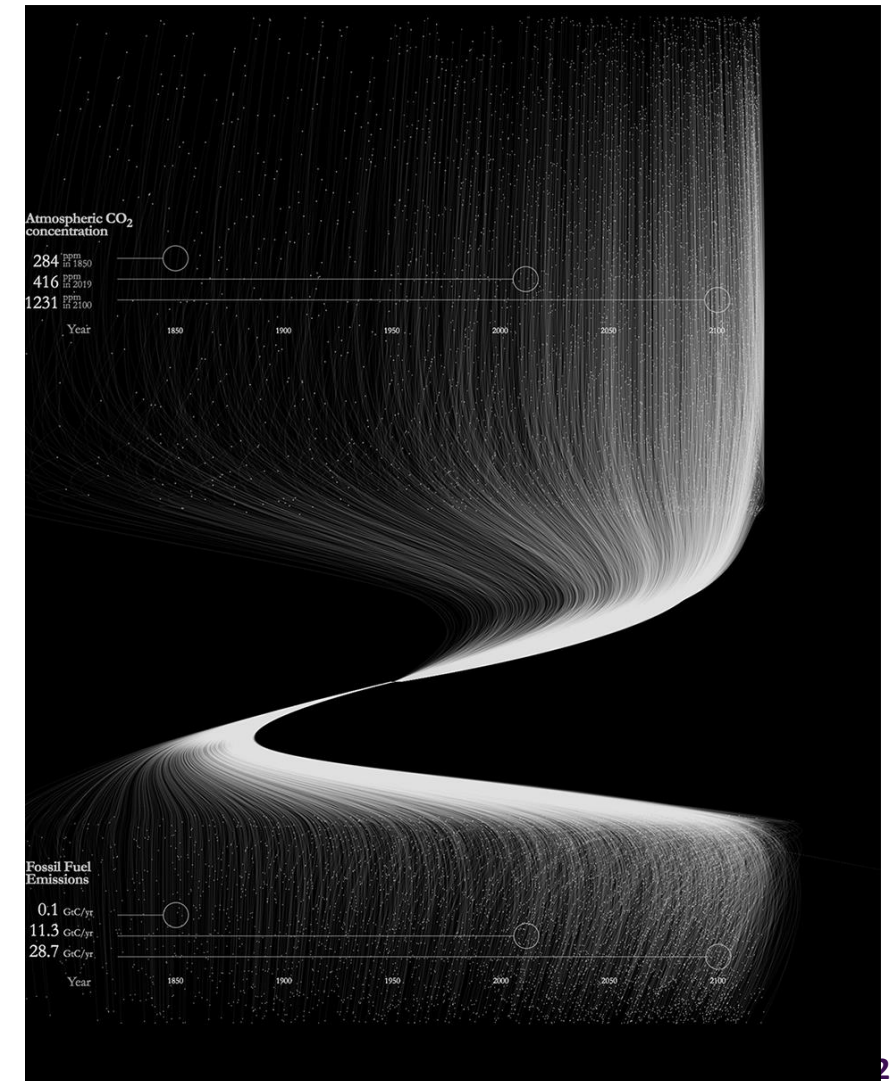


DESCRIPTION

In this module you will learn about the [opportunities](#) and [challenges](#) opened up by the growing role of data visualisation in contemporary science, culture and public policy. You will be introduced to key concepts for understanding the importance of data visualisation as [a form of knowledge](#), [communication](#) and [culture](#) and learn about state-of-the-art approaches to using data visualisation in [research](#) and [engagement](#)- such as visual sociology, inventive methods and design research.

Your learning will be supported through exploration of [real-world examples](#): by reviewing paradigmatic cases, such as the Blue Marble, topographic maps of disputed territories, and visualisations of air pollution, you will learn to reflect on the wider impact of data visualisation on public understanding and societal change.

The module combines lectures, seminars and assignment-based work, which together will equip you to [recognise, analyse and appreciate](#) the wider affordances of data visualisation for knowledge, intervention and change.



SESSIONS STRUCTURE

WEEKS 1-5 Part One

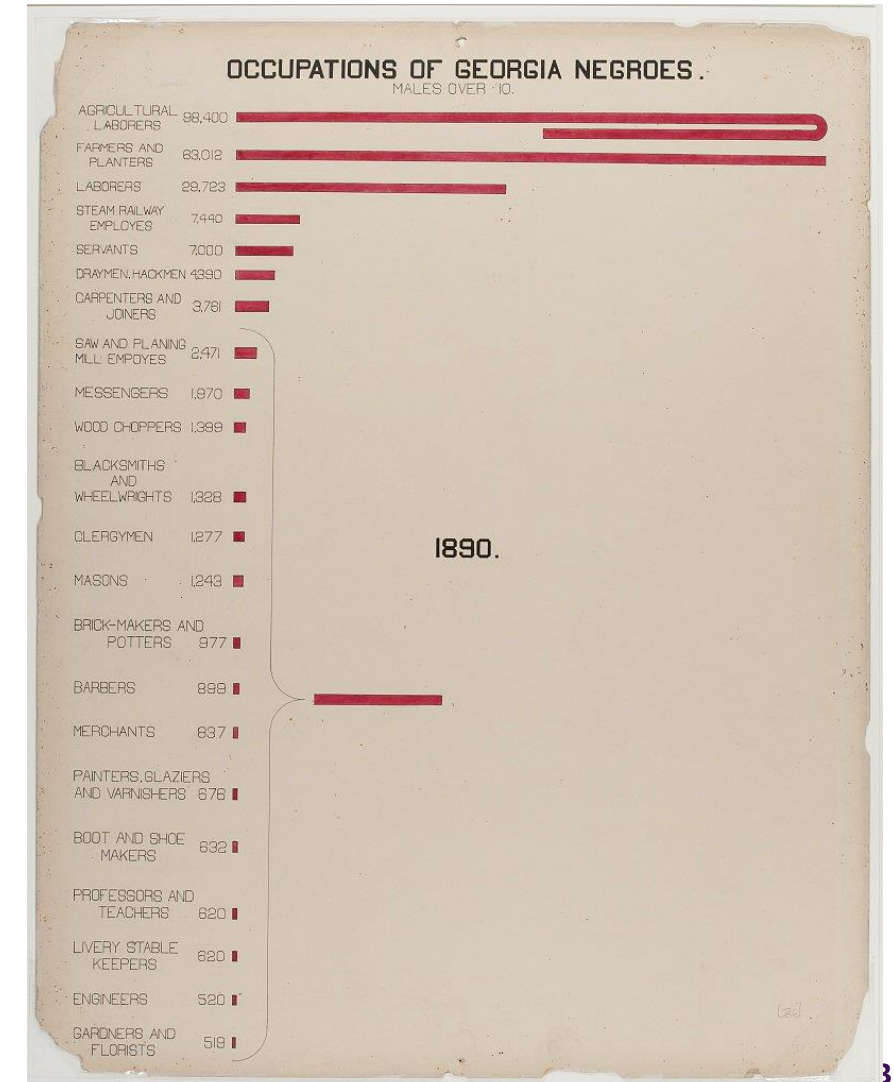
Lectures and seminars [introducing guiding ideas](#) from social and cultural theory, social studies of science, and the humanities on the key importance of visualisation in science, culture and democracy.

- 1h lecture
- 1h seminar
- 1h in-class exercise

WEEKS 6-10. Part Two

Lectures and seminars introducing [specific methods and examples](#) of the use of data visualisation in creative, participatory and policy research.

- 1h lecture
- 1h seminar
- 1h in-class exercise



ASSIGNMENTS

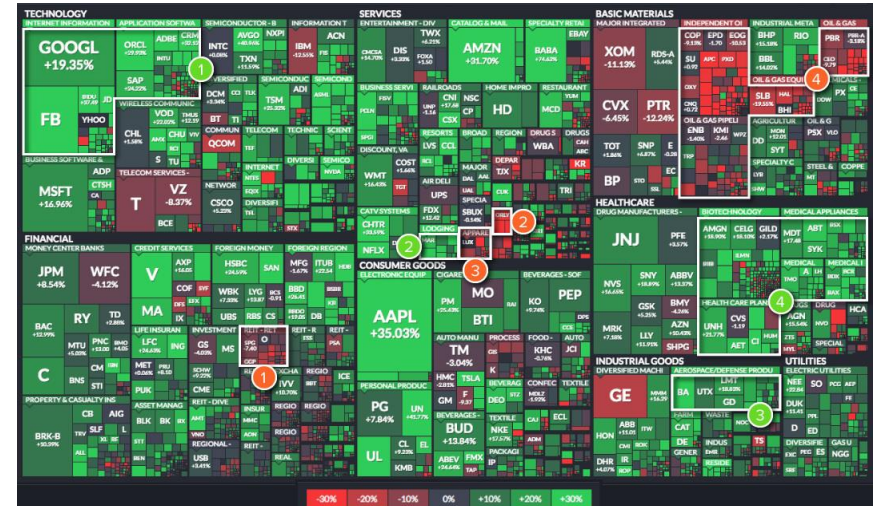
15/30 CAT

15 CATS

- 60% Essay, 750 words;
- 40% Project Presentation Report, 1,500 words.

30 CATS

- 60% Essay, 2500 words;
- 40% Project Presentation Report, 1500 words.



Majid Albunni, Christine Liehr and Marketa Hulpachova

Halal Internet

In Iran, half of the world's top 500 websites are blocked.
But, **70%** of young internet users circumvent the barriers by using proxy servers.



Accessible websites

Accessed via proxy

Blocked websites

Saffron risotto with barberry chutney and turmeric chicken

LEARNING OUTCOMES

- Demonstrate a conceptual understanding of the importance of data visualisation as an instrument of inquiry, advocacy, decision-making, and engagement in contemporary science, culture and public policy.
- Evaluate the usefulness of different methodologies for using data visualisation in the creation of knowledge, facilitate participation, decision-making and social and cultural change.
- Demonstrate an empirical understanding of how data visualisation has enabled new knowledge, engagement, awareness and change through the discussion of real-world examples.
- Provide an account of the role of data visualisation in the development of innovative forms of inquiry, policymaking, intervention and engagement, and of the potential of data visualisation to transform the relationship between science, culture and democracy.

